International Application No PCT/GB2004/000906

T - 21 1 25			17 4020047 000300
IPC 7	GIFICATION OF SUBJECT MATTER G09B23/28 G01L5/00		
1	to International Patent Classification (IPC) or to both national classifi	cation and IPC	
	S SEARCHED locumentation searched (classification system followed by classification system followed by class		
IPC 7	G09B G01L	don symbols)	
Documenta	ation searched other than minimum documentation to the extent that	Such degiments are included to	N. 6
		ages, appointed the included. No	vie liekos searched
Electronic o	data base consulted during the international search (name of data ba	ase and, where practical, search	terms used)
	nternal, WPI Data, PAJ, INSPEC		,
		•	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		· · · · · · · · · · · · · · · · · · ·
Category °	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.
Х	EP 1 136 970 A (LUTAENKO VYACHES	SLAV	1-5,
	FEDOROVICH) 26 September 2001 (2	(001-09-26)	10-12,
			21,22,
			26, 32-36,
		-41,42,51	
	paragraphs [0033], [0034], [00 [0076]; figures 1,5	57],	
	[0070], rigules 1,5		
		-/	}
	·		
			ľ
			1
			}
X Furth	er documents are listed in the continuation of box C.	X Patent family members	are listed in annex.
° Special cat	egories of cited documents :	"T" later document published of	tortho interest of the
"A" documer	nt defining the general state of the art which is not ered to be of particular relevance	"T" later document published af or priority date and not in c cited to understand the pri	onflict with the application but reciple or theory underlying the
"E" earlier de filing da	ocument but published on or after the international	"X" document of particular poly	anger the circumstance in the circumstance
	ate It which may throw doubts on priority claim(s) or s cited to establish the publication date of another		arce; the claimed invention of or cannot be considered to then the document is taken alone
CRALIUII	or other special reason (as specified)	"Y" document of particular relev	ance; the claimed invention volve an inventive step when the
other m			voive an inventive step when the none or more other such docu- eing obvious to a person skilled
"P" documer later that	nt published prior to the international filing date but an the priority date claimed	in the art. "&" document member of the sa	· · · · · · · · · · · · · · · · · · ·
	ctual completion of the international search	Date of mailing of the intern	
Л	lune 2004		·
	June 2004		2 4. 08. 2004
Name and ma	alling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,		
	Fax: (+31-70) 340-3016	Aronsson, F	

International Application No
PCT/GB2004/000906

Citation of document, with indication, where appropriate, of the relevant passages WO 02/03905 A (CPRX LLC) 17 January 2002 (2002-01-17) page 2, line 7 - page 3, line 12 page 4, lines 1-4 page 5, lines 7-11 page 6, line 15 - page 7, line 11 page 8, line 29 - page 9, line 9 page 9, line 29 - page 10, line 4 page 10, line 23 - page 11, line 11 page 12, lines 8-18 US 4 932 879 A (INGENITO MICHAEL ET AL) 12 June 1990 (1990-06-12) column 2, lines 18-56 US 4 883 271 A (FRENCH BARRY J) 28 November 1989 (1989-11-28)		1-7, 10-13, 21,22, 27,28, 32-38, 41,42,51 1-5,10, 11,13, 21,22, 32-36, 41,42,51
page 2, line 7 - page 3, line 12 page 4, lines 1-4 page 5, lines 7-11 page 6, line 15 - page 7, line 11 page 8, line 29 - page 9, line 9 page 9, line 29 - page 10, line 4 page 10, line 23 - page 11, line 11 page 12, lines 8-18 US 4 932 879 A (INGENITO MICHAEL ET AL) 12 June 1990 (1990-06-12) column 2, lines 18-56 US 4 883 271 A (FRENCH BARRY 1)		10-13, 21,22, 27,28, 32-38, 41,42,51 1-5,10, 11,13, 21,22, 32-36, 41,42,51
page 4, lines 1-4 page 5, lines 7-11 page 6, line 15 - page 7, line 11 page 8, line 29 - page 9, line 9 page 9, line 29 - page 10, line 4 page 10, line 23 - page 11, line 11 page 12, lines 8-18 US 4 932 879 A (INGENITO MICHAEL ET AL) 12 June 1990 (1990-06-12) column 2, lines 18-56 US 4 883 271 A (FRENCH BARRY 1)	,	1-5,10, 11,13, 21,22, 32-36, 41,42,51
column 2, lines 18-56 US 4 883 271 A (FRENCH BARRY J)	·	11,13, 21,22, 32-36, 41,42,51
US 4 883 271 A (FRENCH BARRY J)		
		21-25, 32-36,
column 1, lines 19-22 column 3, lines 15-37 column 4, lines 56-63 column 6, lines 45-61 column 7, lines 29-35 column 7, line 66 - column 8, line 10 column 8, lines 51-55	·	51-54
WO 02/093272 A (LARKIN ADRIAN F; YOUNGS PERRY (GB); HOLME ROBERT MUIR (US); JOHJAK) 21 November 2002 (2002-11-21) page 1, lines 10,11 page 2, line 11 page 6, lines 1,2 page 30, lines 5,6 page 65, line 14 page 69, lines 31,32,36 page 71, lines 13,14	·	1-5,13, 21,22, 32-36,51
	column 4, lines 56-63 column 6, lines 45-61 column 7, lines 29-35 column 7, line 66 - column 8, line 10 column 8, lines 51-55 WO 02/093272 A (LARKIN ADRIAN F; YOUNGS PERRY (GB); HOLME ROBERT MUIR (US); JOHJAK) 21 November 2002 (2002-11-21) page 1, lines 10,11 page 2, line 11 page 6, lines 1,2 page 30, lines 5,6 page 65, line 14 page 69, lines 31,32,36	column 4, lines 56-63 column 6, lines 45-61 column 7, lines 29-35 column 7, line 66 - column 8, line 10 column 8, lines 51-55 WO 02/093272 A (LARKIN ADRIAN F; YOUNGS PERRY (GB); HOLME ROBERT MUIR (US); JOHJAK) 21 November 2002 (2002-11-21) page 1, lines 10,11 page 2, line 11 page 6, lines 1,2 page 30, lines 5,6 page 65, line 14 page 69, lines 31,32,36 page 71, lines 13,14

International application No. PCT/GB2004/000906

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-2, 26, 32, 33
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-2, 26, 32, 33

The sensor has a frequency response of at least 1 kHz.

1.1. claims: 1, 3, 4, 32, 34, 35

The sensor produces an output representative of the force applied to it.

1.2. claims: 1, 5, 32, 36

The sensor is arranged to detect thumps having an energy in the range 1J to 20J.

1.3. claims: 1, 6, 7, 27, 28, 32, 37, 38

Optical sensor.

1.4. claims: 1, 10, 11, 32, 41, 42

The mechanical properties of the target region are selected to simulate the precordial region of the chest of a patient.

1.5. claims: 1, 12

Means for analysing the manual thump.

1.6. claims: 1, 13

Means for outputting an indication of the detected parameters.

1.7. claims: 1, 21

Output port.

1.8. claims: 1, 22-25, 32, 51-54

A computer system.

2. claims: 1, 8, 9, 32, 39, 40

A pre-impact speed detector.

3. claims: 1, 14-20, 29-31, 32, 43-50

An array of sensors.

Information on patent family members

International Application No PCT/GB2004/000906

					22047000300
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1136970	A	26-09-2001	RU EP US WO	2176822 C2 1136970 A1 6638073 B1 0008619 A1	10-12-2001 26-09-2001 28-10-2003 17-02-2000
WO 0203905	Α	17-01-2002	AU WO	8288901 A 0203905 A2	21-01-2002 17-01-2002
US 4932879	A	12-06-1990	US US	4828501 A 4915635 A	09-05-1989 10-04-1990
US 4883271	A	28-11-1989	US EP JP WO AU EP JP US	4761005 A 0377007 A1 3501345 T 8910166 A1 6345286 A 0222640 A2 62176471 A 4824107 A	02-08-1988 11-07-1990 28-03-1991 02-11-1989 16-04-1987 20-05-1987 03-08-1987 25-04-1989
WO 02093272	Α	21-11-2002	WO US	02093272 A1 2003163287 A1	21-11-2002 28-08-2003